

**Notice of Allowability**

Application No.

10/501,512

Examiner

Jerry Martin Blevins

Applicant(s)

KOMIYA ET AL.

Art Unit

2883

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed June 2, 2006.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 7/15/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**Brian Healy**  
**Primary Examiner**

## **DETAILED ACTION**

### ***Response to Arguments***

Applicant's arguments, see pages 5-8, filed June 2, 2006, with respect to claims 1-11 have been fully considered and are persuasive. The rejection of claims 1-11 has been withdrawn.

### ***Allowable Subject Matter***

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Takizawa, US 2001/0053260 teaches an optical waveguide module (Figures 1 and 2), comprising: an optical circuit (page 2, paragraph 33), constituted by a substrate (10) and an optical waveguide (20) formed on the substrate and having a groove (11), a reflection filter that is installed on the inside of the groove of the optical circuit including a portion where signal light transmitted through the optical waveguide passes through, and that reflects part of the signal light according to a specific reflectivity (page 4, paragraph 70), and a photodetector (30) that detects reflected light (90) of the signal light reflected by the reflection filter, wherein the photodetector is arranged such that the reflected light is made incident onto the light incident face thereof at a predetermined angle with respect thereto (Figure 1). Takizawa does not teach that the groove is formed at a predetermined inclination angle with respect to the vertical axis of the optical waveguide so as to cross a predetermined

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portion of the optical waveguide. Toyama, US 6,061,487, teaches a groove formed at a predetermined inclination angle with respect to the vertical axis of an optical waveguide so as to cross a predetermined portion of the optical waveguide (Figure 14 and column 24, lines 17-28). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Takizawa with the groove of Toyama. The motivation would have been to reduce optical loss (column 24, lines 17-28). However, Takizawa, taken alone or in combination with Toyama, does not disclose or render obvious that the reflection filter reflects part of the signal light to the top surface of the optical surface or that the predetermined angle is within a range of 80 degrees to 90 degrees.

Claims 2-11 are allowed based on their dependence from allowed base claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

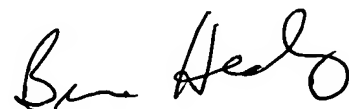
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Martin Blevins whose telephone number is 571-272-8581. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMB

A handwritten signature in black ink, appearing to read "Brian Healy".

**Brian Healy**  
**Primary Examiner**